

Comparisons of Job Characteristics

Focus Occupation: Cement Masons and Concrete Finishers (47-2051)

Associated Occupation: Brickmasons and Blockmasons (47-2021)

[Compare Knowledge](#)

[Compare Skills](#)

[Compare Abilities](#)

[Compare Detailed Work Activities](#)

[Compare Tools and Technologies](#)

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

Knowledge

Similarity of Focus Occupation to Associated Occupation: 93

Focus Occupation: Cement Masons and Concrete Finishers (47-2051)

Associated Occupation: Brickmasons and Blockmasons (47-2021)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation
Building and Construction	4.0	17.9	15.0	< Expanded education and/or training may be required
Design	5.2	10.7	9.9	0 Current knowledge level may be sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills

Similarity of Focus Occupation to Associated Occupation: 90

Focus Occupation: Cement Masons and Concrete Finishers (47-2051)

Associated Occupation: Brickmasons and Blockmasons (47-2021)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation
Mathematics	6.2	8.9	7.3	< A higher skill level may be required
Quality Control Analysis	5.9	8.3	7.7	0 Current skill level may be sufficient
Equipment Selection	3.3	5.8	3.8	<< Extensive development of skills in this area may be required
Management of Material Resources	3.7	5.1	3.7	<< Extensive development of skills in this area may be required
Repairing	3.4	5.1	2.0	<< Extensive development of skills in this area may be required
Equipment Maintenance	3.5	4.7	1.9	<< Extensive development of skills in this area may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Abilities

Similarity of Focus Occupation to Associated Occupation: 90

Focus Occupation: Cement Masons and Concrete Finishers (47-2051)

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Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Static Strength	5.0	14.1	10.2	<<	Extensive improvement in abilities may be required
Trunk Strength	5.7	13.8	12.6	0	Current ability level may be sufficient
Extent Flexibility	4.8	11.9	10.6	<	Some improvement in abilities may be required
Manual Dexterity	6.5	11.8	11.4	0	Current ability level may be sufficient
Dynamic Strength	3.5	11.4	8.2	<<	Extensive improvement in abilities may be required
Visualization	7.5	11.1	10.2	0	Current ability level may be sufficient
Multilimb Coordination	6.0	10.8	10.0	0	Current ability level may be sufficient
Gross Body Equilibrium	3.2	8.0	4.9	<<	Extensive improvement in abilities may be required
Stamina	4.0	7.8	8.9	>	Current ability level is likely sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common

Similarity of Focus Occupation to Associated Occupation: 97

Focus Occupation: Cement Masons and Concrete Finishers (47-2051)

Associated Occupation: Brickmasons and Blockmasons (47-2021)

Work Activities	Exclusivity of Activity
Adhere to safety procedures	12
Apply adhesives, caulking, sealants, or coatings	45
Apply cleaning solvents	41
Apply grouting or other masonry adhesives	81
Apply plaster, stucco or related material	80
Build or repair masonry structures, including kilns or furnaces	84
Build or repair structures in construction, repair, or manufacturing setting	54
Climb ladders, scaffolding, or utility or telephone poles	56
Cut or shape stone, tile, brick, or related material	76
Erect scaffold	56
Fabricate, assemble, or disassemble manufactured products by hand	11
Lay out masonry work	87
Measure tile or masonry materials	82
Mix mortar, grout, slurry, concrete, or related masonry material	80
Mix paint, ingredients, or chemicals, according to specifications	35
Move or fit heavy objects	8
Perform safety inspections in construction or resource extraction setting	46

Prepare site or surfaces for concrete or masonry work	76
Read blueprints	10
Read tape measure	41
Read technical drawings	7
Repair or replace damaged bricks, tile, or related masonry	85
Understand construction specifications	53
Use hand or power tools	2
Use measuring devices in construction or extraction work	41
Verify levelness or verticality, using level or plumb bob	72

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Tools and Technologies that Both Occupations Have in Common

Similarity of Focus
Occupation to Associated
Occupation: 85

Focus Occupation: Cement Masons and Concrete Finishers (47-2051)

Associated Occupation: Brickmasons and Blockmasons (47-2021)

Tools and Technologies	Exclusivity
Abrasives and abrasive media	56
Building construction machinery and accessories	25
Business function specific software	1
Cleaning equipment	11
Computers	1
Cutting and crimping and punching tools	3
Dispensing tools	6
Earth moving machinery	11
Finance accounting and enterprise resource planning ERP software	2
Forming tools	2
Garden tools	12
Holding and clamping tools	3
Industrial trucks	10
Industry specific software	1
Ladders and scaffolding	6
Length and thickness and distance measuring instruments	2
Lifting equipment and accessories	3
Masonry and concrete tools	22
Measuring and layout tools	3
Pneumatic tools	8
Power generators	16
Power tools	2
Prying and bending tools	10
Respiratory protection	6
Rough and finishing tools	5
Wrenches and drivers	2

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.